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Title: **JP8138635A2: CYLINDRICAL MANGANESE DRY BATTERY**  
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Country: **JP Japan**  
 Kind: **A**

Inventor(s): **URADE MAKOTO**

Applicant/Assignee:  
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**HITACHI MAXELL LTD**

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Issued/Filed Dates: **May 31, 1996 / Nov. 2, 1994**

Application Number: **JP1994000293875**

IPC Class: **H01M 2/02; H01M 6/08;**

Priority Number(s): **Nov. 2, 1994 JP1994000293875**

Abstract:



**Purpose:** To provide a cylindrical manganese dry battery excellent in shelf life by preventing the intrusion of oxygen in the atmosphere into a battery even in the case of an occurrence of a pinhole.

**Constitution:** A sealing body 7 in the center through hole 7a of which a carbon rod 6 is interposed is arranged in the opening of a zinc can 1 in which a positive electrode mixture 3 and a separator 2 are filled, while a negative electrode terminal plate 9 and the insulation ring 10 of a negative electrode side are arranged in the bottom of the can 1. A heat contractive resin tube 11 is arranged on the periphery of the zinc can 1, the heat contractive resin tube 11 is heat-contracted, a positive electrode terminal plate 12 is fitted on the upper end portion of the carbon rod 6, and the insulation ring 13 of a positive electrode side is arranged on the periphery of the positive electrode terminal plate 12 and is clamped in an axial direction by a metal armor can 14 so as to seal the opening portion of the zinc can 1. In this cylindrical manganese dry battery, volatile resistant or nonvolatile fluid organic substance such as machine oil, liquid paraffin or the like is interposed on the whole faces or a part between the zinc can 1 and the heat contractive resin tube 11.

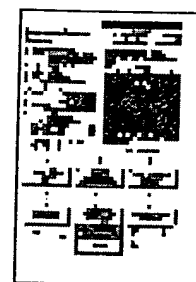
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► See a clear and precise summary of the whole patent, in understandable terms.

Family: Show known family members

Other Abstract Info: **CHEMABS 125(10)119544V CAN125(10)119544V DERABS C96-314441 DERC96-314441**

Foreign References: **No patents reference this one**



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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **06293875**(51) Intl. Cl.: **H01M 2/02 H01M 6/08**(22) Application date: **02.11.94**

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publication: **31.05.96**(84) Designated contracting  
states:(71) Applicant: **HITACHI MAXELL LTD**(72) Inventor: **URADE MAKOTO**

(74) Representative:

**(54) CYLINDRICAL  
MANGANESE DRY  
BATTERY**

(57) Abstract:

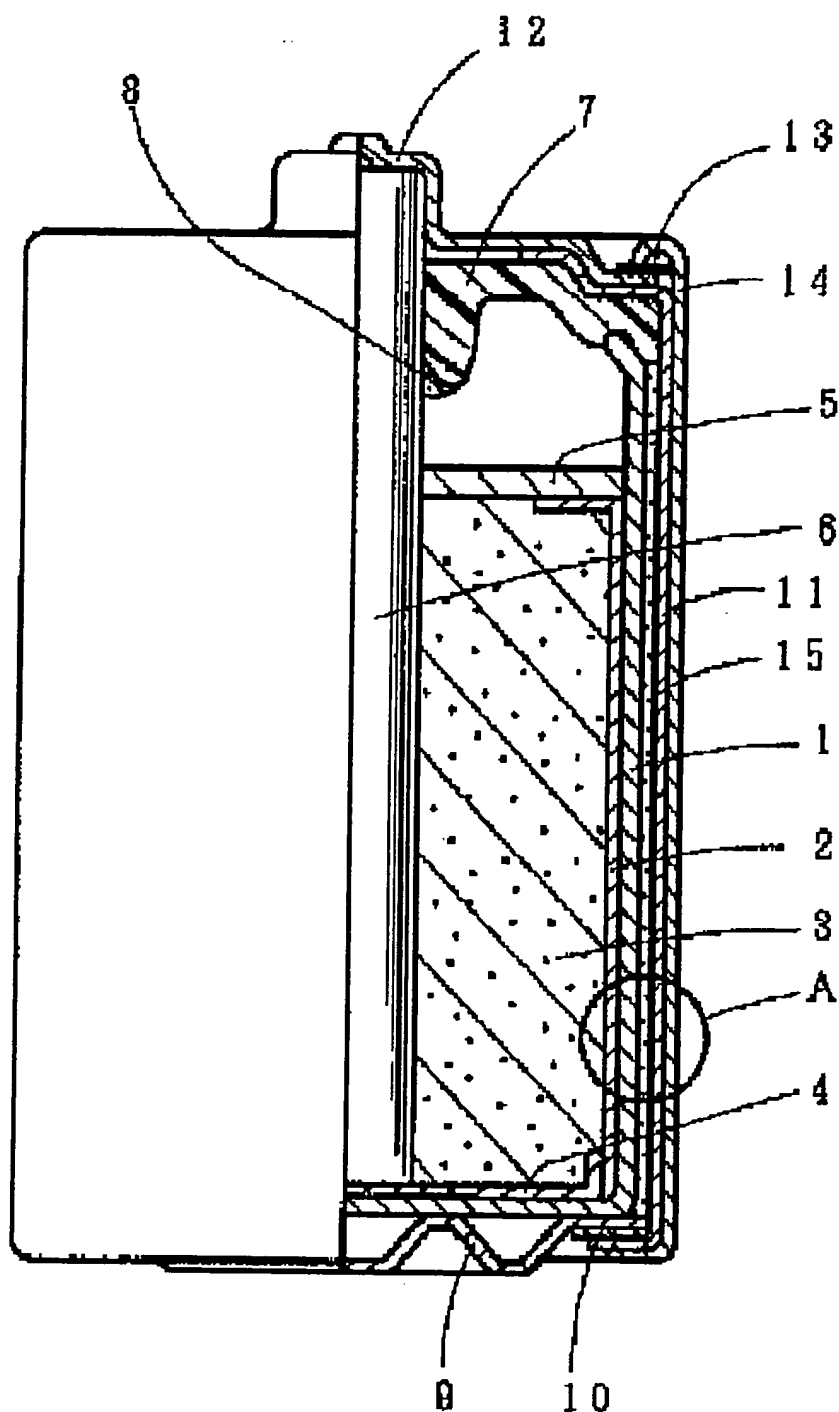
**PURPOSE:** To provide a cylindrical manganese dry battery excellent in shelf life by preventing the intrusion of oxygen in the atmosphere into a battery even in the case of an occurrence of a pinhole.

**CONSTITUTION:** A sealing body 7 in the center through hole 7a of which a carbon rod 6 is interposed is arranged in the opening of a zinc can 1 in which a positive electrode mixture 3 and a separator 2 are filled, while a negative electrode terminal plate 9 and the insulation ring 10 of a negative electrode side are arranged in the bottom of the can 1. A heat contractive resin tube 11 is arranged on the periphery of the zinc can 1, the heat contractive resin tube 11 is heat-contracted, a positive electrode terminal plate 12 is fitted on the upper end portion of the carbon rod 6, and the insulation ring 13 of a positive electrode side is arranged on the periphery of the positive electrode terminal plate 12 and is clamped in an

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axial direction by a metal armor can 14 so as to seal the opening portion of the zinc can 1. In this cylindrical manganese dry battery, volatile resistant or nonvolatile fluid organic substance such as machine oil, liquid paraffin or the like is interposed on the whole faces or a part between the zinc can 1 and the heat contractive resin tube 11.

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